



Marstech

Rectifier Charger System

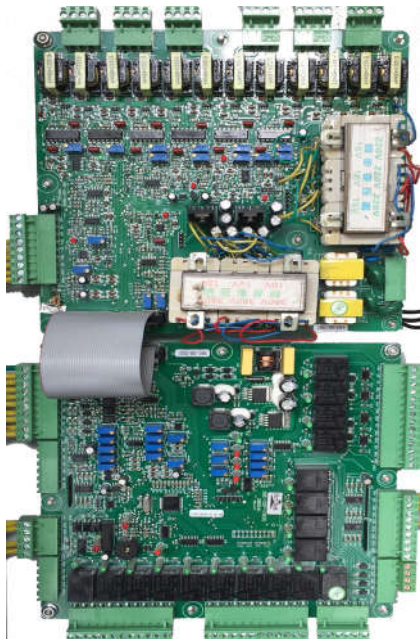


Marstech Charger

<u>Main Feature</u>	<u>Main Option</u>	<u>Application</u>
▶ Industrial Layout	▶ Customized input and output voltage	▶ Power Station and Substation
▶ Easy maintenance/front access	▶ AC mains failure monitoring, DC earth fault monitoring	▶ Water Treatment Plants
▶ Input isolation transformer , protected by MCCB	▶ Temperature compensated battery voltage	▶ Manufacture Plants
▶ Full set of battery charging methods available	▶ Timer controlled battery charging	▶ Transportations
▶ Microprocessor control	▶ Reversible operation (battery discharging to the ac mains)	▶ Oil & Gas and Petrochemical Plants
▶ LCD Display	▶ Additional PFI filters	
▶ 12 pulse bridge	▶ Additional THD filters	
▶ DC/DC stabilizer (dropping diodes or chopper regulator)	▶ Output distribution panels	

Standards

International Quality Certificate	ISO 9001
Low voltage assemblies	IEC 439
Semiconductor convertors	IEC 146
Power transformers	IEC 76
Degree of protection	IEC 529
Safety	IEC EN 62040-1
IEC EN 61000-6-4	IEC EN 61000-6-1, IEC EN 61000-6-2
Applicable standards	IEC 60146/DIN41733



▶ **Marstech** is with DSP technology fully controlled . Charger is base on Thyristor + with Isolation transformer, Input PF >0.9 , Low harmonic <5% , Standard low DC Ripple < 1% for 3 phase systems and Charger characteristic according DIN 41773 (UL)

A Compact Industrial DC System
Specially Designed for Power Stations
and Substations

Marstech standby power system chargers are built for both lead acid and nickel cadmium batteries. It has incorporated the most asked-for features and offers a high degree of standardization and reliability. Development of the system took into account the requirements of our customers and the experience acquired by Marstech over more than 12 years of activity in the area of power version technology.

Marstech system is based on a 6-pulse or 12-pulse thyristor bridge controlled by microprocessor. The system is provided with LCD control panel, displaying the operational status of the equipment. Serial interfaces are available for remote control of the system. Upon request



IP 31 -42

LCD MULTIFUNCTIONAL PANEL

MONITORS

- ▶ AC voltage Input
- ▶ Current Input
- ▶ DC voltage output
- ▶ Boost Voltage
- ▶ Float Voltage
- ▶ Rectifier current
- ▶ Load current
- ▶ Battery current
- ▶ Hi DC
- ▶ Low DC

ALARM

- ▶ Mains fail
- ▶ Charger fail
- ▶ Earth fault
- ▶ Hi DC
- ▶ Low DC
- ▶ Low Electrolyte
- ▶ Overload
- ▶ Low input volt
- ▶ Hi input volt



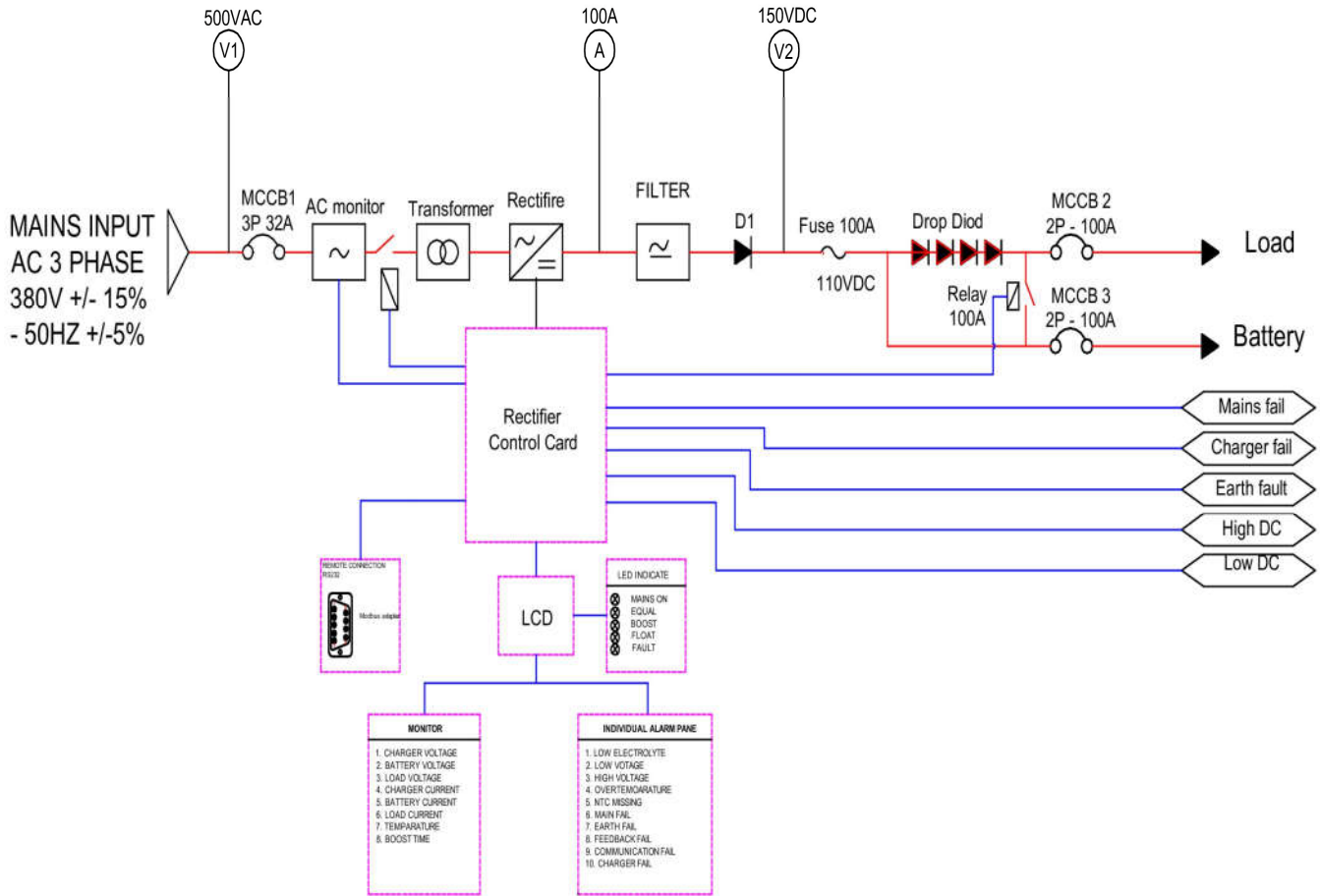
LED FUNCTION

- ▶ MAINS ON
- ▶ EQUAL
- ▶ BOOST
- ▶ FLOAT
- ▶ FAULT

Marstech Rectifier Battery Charger Specification

Technical characteristics							
Model 3BC -	110-25	110-50	110-75	110-100(125)	220-25	220-50	220-100(125)
Size (A)	25	50	75	Max 125	25	50	Max 125
Input Voltage	3 phase 400 +/- 20% Vac (other as option) 50 – 60Hz +/- 5Hz						
Input THD	27% 6P, 12% 12P, 6% THD Filter + 12P						
Output voltage	110Vdc – 220Vdc (other as option)						
Ripple	≤ 1% Vn (RMS)						
Static stability	+/- 1% Vn						
Overload	120% for 10mins						
Ventilation	Natural and Fan						
Efficiency (%)	> 90%						
Noise 1m(dBA)	55 - 65						
Colour	RAL 7035 (other as option)						
Operation temperature	- 10 ÷ 40°C						
Protection Degree	IP31-42 (Optional for other protection degree)						
Altitude above sea level	1000 m						
Communication	RS232/RS485 Modbus serial port /RJ45/Dry Contactor (Option)						
Dimension WxDxH	600x600x1700	600x600x1700	700x700x1700	750x750x1700	600x600x1700	700x700x1700	800x800x1700
Weight (Kg)	250	300	350	380	300	350	400

One Line Diagram



For further information, please contact our local agent or distributor.

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